Pump Station S-507
Summary of Hydraulic Design Data

Revisions:
- 24 January 2001 – Removed Mix Criteria comment associated with providing a duplicate pump.
- 30 November 2000 – Finalized prior to SFWMD concurrence
- 31 October 2000 – Original submission.

XY Coordinate[1] – 842140 611720
Location: Broward County, Holly Lakes Mobile Home Community off of US-27, western side.

Purpose/Operational Intent: Flood Control, Seepage Control
- Offset potential flooding and seepage problems that may occur because of the holding of higher water table elevations within the WCA-3B Seepage Management Area (southern EBS).

Design Condition:	Flood Control	60 cfs
	Seepage Control	Required

Pump Station Capacity Criteria:
- Pump station capacity provides the ability to remove approximately 12" of basin runoff within the community's protection levee within a 24-hour period.

Number of Pumps	2	
Pump Mix Type and Size		
	Electric	2 @ 30 cfs

Mix Criteria:
- Two pumps allow for an intermediate pumping rate and in the event of a single pump failure 50% of total pumping capacity remains.

Control: Local & Remote by SCADA

Design Heads		
Normal (6.00 HW to 6.50 TW)	1.00	feet
Maximum (6.00 HW to 8.50 TW)	2.50	feet

Intake Water Surface Elevations		
Maximum Non-Pumping	8.50	ft-NGVD
Maximum Pumping	8.50	ft-NGVD
Start Pumping	5.70	ft-NGVD
Normal Drawdown	5.0 to 5.5	ft-NGVD
Minimum Drawdown Pumping	4.50	ft-NGVD
Minimum Non-Pumping	4.00	ft-NGVD
Channel Invert	+1.00	

Discharge Water Surface Elevations		
Maximum Non-Pumping	8.50	ft-NGVD
Maximum Pumping	8.50	ft-NGVD
Normal Pumping	6.50	ft-NGVD
Minimum Pumping	5.00	ft-NGVD
Minimum Non-Pumping	4.00	ft-NGVD
Channel Invert	-10.00	ft-NGVD

Notes:
- [1] XY coordinates system used is NAD 83, Florida east, state plane.
- All elevations are in feet, NGVD (National Geodetic Vertical Datum of 1929)
- Diesel generator is required for control station and electric pumps in cases of power outage.

Data Compiled from: EN-HI modeling and EN-HH design.